INTERNATIONALSEARCHREPORT

International application No. PCT/JP2004/017439

| A. CLA | SSIFICATIONOFSUBJECTMATTER | | |
|---|--|---|--|
| Int.Cl ⁷ H01L29/78, H01L21/336, H01L21/316 | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | |
| B. FIELDS SEARCHED | | | |
| Minimum documentation searched (classification system followed by classification symbols) | | | |
| Int.Cl ⁷ H01L29/78, H01L21/336, H01L21/316 | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | |
| Japanese Utility Model Gazette 1922-1996, Japanese Fublication of Unexamined Utility Model Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Gazette Containing the Utility Model 1996-2005 | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | | |
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| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
| Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. | | | |
| | | PP opinion of the following pubblished | ACICVAIL TO CIAIII INO. |
| x | US 2003/0168707 A1 (MATSUSH | ITA ELECTRIC | 1,2,12-14 |
| | INDUSTRIAL CO., LTD.) 2003 | | • |
| • | &JP 2003-264285 A &EP 1347 | 503 A2 | |
| . x | US 2002/0140043 A1 (KABUSHI | KI KAISHA TOSHIBA) | 1-4,12-14 |
| | 2002.10.03, a whole docum | - | |
| | &JP 2002-299612 A | | |
| x | JP 9-162185 A(MITSUBISHI D | ENKT KARIISHTKT | 1-4,12-14 |
| | KAISHA) 1997.06.20, a whole document | | |
| | (family:none) | | |
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| Further documents are listed in the continuation of Box C. See patent family annex. | | | |
| * Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention | | | |
| "E" carlier application or patent but published on or after the inter- "X" document of particular relevance; the claimed invention cannot | | | |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other | | be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot | |
| special reason (as specified) "O" document referring to an oral disclosure; use, exhibition or other means | | be considered to involve an inventive combined with one or more other | step when the document is r such documents, such |
| "P" docume | ent published prior to the international filing date but later e priority date claimed | combination being obvious to a personance document member of the same patent | |
| Date of the actual completion of the international search Date of mailing of the international search report | | | |
| • | 18.02.2005 | 08.3.2 | 005 |
| Name and mailing address of the ISA/JP | | Authorized officer | |
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INTERNATIONALSEARCHREPORT

International application No. PCT/JP 2004 / 017439

| Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) | | | |
|--|--|--|--|
| This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: | | | |
| 1. Claims Nos.: | | | |
| because they relate to subject matter not required to be searched by this Authority, namely: | | | |
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| | | | |
| 2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an | | | |
| extent that no meaningful international search can be carried out, specifically: | | | |
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| 3. Claims Nos.: | | | |
| because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). | | | |
| Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) | | | |
| This International Searching Authority found multiple inventions in this international application, as follows: | | | |
| (See an extra sheet) | | | |
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| 1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. | | | |
| , | | | |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. | | | |
| 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: | | | |
| claims 1-4,12-14 | | | |
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| No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: | | | |
| | | | |
| Remark on Protest The additional search fees were accompanied by the applicant's protest. | | | |
| No protest accompanied the payment of additional search fees. | | | |

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/017439

The feature common to all of claims [1,2], [3,4], [5], [6], [7-11], [12], [13,14] is claim 1.

However, the search has revealed that claim 1 is not novel since it is disclosed in a document 1(US 2003/0168707 A1(MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 2003.09.11, Fig.6A).

Consequently the common feature (claim 1) is not a special technical feature.

So, claims [1,2], [3,4], [5], [6], [7-11], [12], [13,14] do not satisfy the requirement of unity of invention.

The technical feature of "Multi-Reflection Attenuated Total Reflection Method" in claim 12 is a well-known technology. And the technical feature of claims 13,14 is disclosed in the document 1.

So, claims 12-14 are linked claims 1,2.

Therefore, there are 5 inventions in claims [1,2,12-14], [3,4], [5], [6], [7-11].